Borrero et al., Numerical Modeling of Tsunami Effects at Marine Oil Terminals in San Francisco Bay Appendix 5: Magoon (1962) observations of the 1964 tsunami in San Francisco Bay.

Appendix 5: Magoon (1962) observations of the 1964 tsunami in San Francisco Bay

Appendix a	5: Magoon (1962	<i>i)</i> obser	vations	oi tr	ie 1904 tsu	nami in S	an Francisco	рау	
Location	Site	Lat (°N)	Lon (°W)	No.	Water Elevation above MLLW (m)	Max. Wave Height (m)	Time of Water Max (PST)	Damage (\$, 1964)	Remarks
San	Presidio/Golden								
Francisco	Gate	37.8	122.45	Α	2.6	2.3	1:00	None	tide gage
	Bauman Bros.								
Sausalito	Sales	37.86	122.48	16			1:30	None	
	Marinship								
Sausalito	Yacht Harbor	37.87	122.5	18	1.7	1.2	2:00	None	
	Clipper Yacht								Damage to floating
Sausalito	Harbor	37.87	122.5	19		1.2	2:00	100000	structures & boats
Belvedere	SF Yacht Club	37.87	122.46	22		1.5	2:00	None	
Borroadio	San Rafael	27707	122110			110	2.00	1,011	Damage to floating
San Rafael	Yacht Harbor	37.96	122.51	31	2.4			7500	structures & boats
Suil Rulus	Lowries Yacht	27.50	122.31	51	2			7200	Damage to floating
San Rafael	Harbor	37.97	122.49	36	2.0	1.5	2:00	10000	structures & boats
San Rafael	Loch Lomond Harbor	37.98	122.47	39				60000	One boat broke loose damaging other boats/ facilities
	Mare Isl. Naval								
Vallejo	Shipyard	38.1	122.27	G	0.2			None	tide gage
	Glen Cove								
Vallejo	Harbor	38.09	122.25	103		slight		None	Fish stopped biting
Benicia	Benicia	38.07	122.45			0.1		None	
	Paul's Yacht				not				
Suisin	Harbor	38.11	122.07	105	observed			None	
	Big Break				not				
Antioch	Resort	38.02	121.73	52	observed			None	
	Lauritzen Yacht				not				
Antioch	Harbor	38.02	121.75	53	observed			None	
					not				
Antioch	Bridge Marina	38.02	121.76	55	observed			None	
	San Joaquin				not				
Antioch	Yacht Harbor	38.02	121.76	57	observed			None	
	Pittsburg				not				
Pittsburg	Marina	38.07	121.89	107	observed			None	
	Harris Yacht				not				
McAvoy	Club	38.05	121.95	59	observed			None	
					not			_	
Crockett	Eckley's Resort	38.05	122.2	62	observed			None	
	Dowrelio's				not				
Crockett	Harbor	38.06	122.23	63	observed			None	
					not				
Rodeo	Rodeo Marina	38.04	122.27	64	observed			None	
Pt. San Pablo	Standard Oil Co.	37.96	122.41	66	2.3	1.3	1:50	None	Oscillations on gage for 10 days

Borrero et al., Numerical Modeling of Tsunami Effects at Marine Oil Terminals in San Francisco Bay Appendix 5: Magoon (1962) observations of the 1964 tsunami in San Francisco Bay.

Pt. San	Pt. San Pablo								Like fast tidal
Pablo	Yacht Harbor	37.96	122.42	65	1.7	1.9	2:00	None	currents
Pt.	Red Rock								
Richmond	Marina	37.93	122.4		2.1		after 1:30	None	Boats touch bottom
	Richmond								
Richmond	Yacht Service	37.92	122.37	67	1.8	0.5		None	
	Richmond								Low water to -1
Richmond	Yacht Harbor	37.92	122.37	68	≥1.8	2.1		None	MLLW
									Low water to -1
Richmond	Channel Marina	37.91	122.36	70	≥1.8	2.7		slight	MLLW
	Berkeley Yacht							400	
Berkeley	Harbor	37.87	122.32	71			2:40	100	
0.11.1	Norwalk Yacht	27.0	100.0	7.0	2.0	2.2	1.45	NT	
Oakland	Harbor	37.8	122.3	72	2.0	2.3	1:45	None	
0.11.1	Jack London	27.0	100.07	110	1.0	2.1		NT	
Oakland	Marina	37.8	122.27	112	1.8	2.1		None	
0-1-11	Embarcadero	27.70	122.26		1.0	2.4		Mana	
Oakland	Yacht Harbor		122.26		1.8	2.4		None	
Oakland	Oakland Marina	37.79	122.26	77	2.1			None	
0.11	Lani Kai	25.50	100.00	0.4	0.6				
Oakland	Harbor	37.79	122.26	81	0.6			None	
	D 'C' M '	27.70	100.07	7.4	not			N	
Alameda	Pacific Marina	37.78	122.27	74				None	
Alamada	Alameda Yacht Club	27 70	122.26	73	not observed			None	
Alameda	Aeolian Yacht	31.10	122.20	13				None	
Alameda	Club	37.75	122.23	84	not observed			None	
San	San Leandro	31.13	122.23	04	not			None	
Leandro	Marino	37.7	122.19	115				None	
Leanuro	Withino	31.1	122.17	113	not			Tione	
Alviso	Alviso Marina	37.4	122.01	117				None	
111150	Palo Alto Yacht	5711	122.01	11,	not			110110	
Palo Alto	Harbor	37.45	122.08	2	observed			None	
Redwood	Redwood City				not				
City	Muni	37.5	122.21	4	observed			None	
Redwood	Redwood				not				
City	Marina	37.49	122.22	3	observed			None	
Redwood					not				
City	Pete's Harbor	37.5	122.22	5	observed			None	
	Coyote Point				not				
Burlingame		37.59	122.24	8	observed			None	
S. San	Oyster Point				not				
Francisco	Harbor	37.68	122.38	118	observed			None	
	Entrance to								
Alviso	Alviso Slough	37.46	122.03	C		0.3		None	tide gage
	Naval Air								
	Station,								
Alameda	Alameda	37.79	122.32	D		1.6		None	tide gage
	Standard Oil			_					
Richmond	Co.		122.39	F	2.3	1.2		None	tide gage
Benicia	Benicia Harbor	38.04	122.14	Н		0.1		None	tide gage